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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/849,198	05/19/2004	DiplIng. Karl Schrodinger	MAIKP137US	6994	
57299 Kathy Manke	7590 12/14/200	7	EXAMINER		
Avago Technologies Limited			BELLO, AGUSTIN		
4380 Ziegler R Fort Collins, Co			ART UNIT	PAPER NUMBER	
•			2613		
			NOTIFICATION DATE	DELIVERY MODE	
			12/14/2007	ELECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

avagoip@system.foundationip.com kathy.manke@avagotech.com scott.weitzel@avagotech.com

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;	Application No.	Applicant(s)	
	10/849,198	SCHRODINGER, DIPLING. I	KARL
Office Action Summary	Examiner	Art Unit	
	Agustin Bello	2613	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period was period to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from 1, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).	
Status			
1)⊠ Responsive to communication(s) filed on 23 Se	entember 2004.		
	action is non-final.		•
3) Since this application is in condition for allowar		secution as to the merits is	
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	i3 O.G. 213.	
Disposition of Claims			
4) ☐ Claim(s) 23-44 is/are pending in the application 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) 27-36,39 and 40 is/are allowed. 6) ☐ Claim(s) 23-26,37,38 and 41-44 is/are rejected 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.		•
Application Papers			
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction of the original transfer and the correction is objected to by the Examiner.	epted or b) objected to by the Edrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been receive (PCT Rule 17.2(a)).	on No ed in this National Stage	
Attachment(s)			
Notice of References Cited (PTO-892)	4) Interview Summary		
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)	Paper No(s)/Mail Da 5) Notice of Informal Pa		
Paper No(s)/Mail Date	6) Other:	•	

DETAILED ACTION

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Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 10/31/07 has been entered.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 23-26 are rejected under 35 U.S.C. 102(b) as being anticipated by Tanji (U.S. Patent No. 6,512,617).

Regarding claim 23, Tanji teaches an optical transmission element (reference numeral 25 in Figure 1); a driver (reference numeral 80 in Figure 1) comprising a driver input configured to drive the optical transmission element in response to a transmission signal applied to the driver input to produce a drive signal for the optical transmission element; an internal programmable control device (reference numeral 15 in Figure 1) configured to selectively drive the driver in a program mode of operation; and a multiplexing device (reference numeral 35 in Figure 1) connected between a signal input comprising an external connecting pin (reference numeral 40, 45, 50, 55 in Figure 1) of the transmission module, the driver input (reference numeral 80 in

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Figure 1) and the programmable control device (reference numeral 15 in Figure 1), and configured to selectively pass an input signal at the external connecting pin signal input of the transmission module to the control device in the program mode or to the driver in a transmission mode of operation (column 3 lines 55-64).

Regarding claim 24, Tanji teaches that the multiplexing device comprises a control input (reference numeral 45 in Figure 1) via which a control signal is fed into the multiplexing device (reference numeral 35 in Figure 1), and wherein the multiplexing device is configured to switch in response to the control signal from a program mode switching state in which the signal input of the transmission module and the programmable control device are connected, to a transmission mode switching state in which the signal input of the transmission module and the driver input are connected, or vice versa (column 3 lines 55-64).

Regarding claim 25, Tanji teaches that the multiplexing device is configured to determine whether the input signal applied to the signal input of the transmission module is a programming signal for the programmable control device or a transmission signal for the driver, and wherein the multiplexing device is configured to switch the input signal automatically to the programmable control device if the input signal is a programming signal, or switch the input signal to the driver if the input signal is a transmission signal (e.g. signal 45 initiates the "Calibration mode" and therefore element 35 in Figure 1 determines whether the input signal is a programming signal or a transmission signal; see also column 3 lines 55-64).

Regarding claim 26, Tanji teaches a monitoring module (reference numeral 35 in Figure 1) comprising an input (e.g. "INTERFACE" of numeral 35 connected to reference numerals 45, 55 in Figure 1) connected directly or indirectly to the signal input of the transmission module

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and configured to identify programming signals and transmission signals in each case (e.g. inherent in the identification of the calibration initiate signal); and a multiplexing unit (e.g. the unit comprising both the CONTROL and STATE MACHINE of element 35 in Figure 1) coupled to and driven by the monitoring module via a control connection and comprising at least one input (reference numerals 45, 55 in Figure 1), two outputs (e.g. one output to reference numeral 15 in Figure 1; and a second output to reference numeral 75, 80 in Figure 1) and the control connection (reference numeral 45 in Figure 1), wherein the multiplexing unit is connected directly or indirectly at the input to the signal input of the transmission module (reference numerals 45, 55 in Figure 1) and at the output to the driver input of the driver (reference numeral 80 in Figure 1) and to the programmable control device (reference numeral 15 in Figure 1), respectively, and wherein the multiplexing unit is configured to connect the signal input of the transmission module to the driver input of the driver or to the control device as a function of a control signal from the monitoring module (e.g. signal 45 initiates the "Calibration mode" and therefore element 35 in Figure 1 determines whether the input signal is a programming signal or a transmission signal; see also column 3 lines 55-64).

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
- . (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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5. Claims 37-38 and 41-44 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tanji.

Regarding claim 37-38 and 41-44, Tanji differs from the claimed invention in that Tanji fails to specifically teach a level detector, frequency detector, or code detector which act to evaluate the input signal and determine whether the input signal is a transmission signal or a programming signal. However, one skilled in the art would clearly have recognized that any of these differentiators and their corresponding detectors could have been used to determine whether the input signal is a transmission signal or a programming signal. Differentiation of signal according to level, frequency, or code is very well known in the art and therefore, it would have been obvious to one skilled in the art at the time the invention was made to employ any of these differentiators and their corresponding detectors in the system of Tanji.

Allowable Subject Matter

6. Claims 27-36, 39-40 are allowed.

Response to Arguments

7. Applicant's arguments filed 10/31/07 have been fully considered but they are not persuasive. The applicant argues that the amended claim distinguishes the invention from the prior art. However, as noted above, the examiner disagrees. The limitations are clearly met by the cited prior art in that the EEPROM 15 is an internal part of the overall transceiver module shown by Figure 1 in its entirety. While the applicant implies that the programmable module is internal to the integrated CMOS circuit, the claim language is not as specific.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Agustin Bello whose telephone number is (571) 272-3026. The examiner can normally be reached on M-F 8:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jason Chan can be reached on (571)272-3022. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Agustin Bello Primary Examiner Art Unit 2613